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REMARKS

The claims have been amended to better conform with U.S. practice, such as removing multiple dependencies. Applicants respectfully request substantive examination on the merits.

Respectfully submitted,

Jarett K. Abramson Registration No. 47,376 Attorney for Applicants



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Date of Signature: December 21, 2001

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

The following is an addendum to the concurrently filed Preliminary Amendment in the above-referenced application. This addendum includes a marked-up version of the changes made to the claims by the present Preliminary Amendment.

In the Claims:

1. (Amended) [Compound] A compound of the general formula (I)

 $X(B)_m$

(I)

wherein

X is an m-valent unit and

B are identical or different and denote K-R,

wherein

K is a bond or is $A^1-(A^2-A^3)_k$ -sp, wherein

 A^1 is $(CH_2)_t Y (CH_2)_u$, wherein

Y is >C=O, >NH, -O-, -S- or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

A² is -NHCO-, -CONH-, -OCONH- or SCONH-, or is -CO-,

 A^3 is $(CH_2)_r$, $O(CH_2)_r$, $NH(CH_2)_r$, $S(CH_2)_r$ or $-(CHQ)_r$, wherein

r is an integer from 1 to 6 and

Q is a substituted or unsubstituted alkyl or aryl group,

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

R is hydrogen; a ligand suitable for specific bonding to a receptor; a marker molecule; or a catalytically active group; and

m is at least 2, with the proviso that

- (1) in the compound at least one R is not hydrogen,
- (2) there are at least two K that are not a bond, and

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- (3) X, B and m are so selected that an intermolecular association of the K in liquid phase by the formation of hydrogen bonds is possible, with formation of aggregates that present on the surface a plurality of R that are not hydrogen, and
- (4) the molar mass of the fragment $X(K)_m$ is less than 20,000.
- 2. (Amended) [Compound] A compound according to claim 1, wherein the molar mass of the fragment $X(K)_m$ is less than 4,000.
- 3. (Amended) [Compound] <u>A compound</u> according to [either] claim 1 [or claim 2], wherein
 - m is an integer from 2 to 4, and
 - is CH_{4-m} , NH_{3-m} , N^+H_{4-m} , >P- (when m=3), $>P^+<$ (when m=4), >B- (when m=3), a linear atom group C_2H_{6-m} , $>CH(CH_2)_zCH<$, >C=C<, >N-N<, $>N(CH_2)_zN<$ wherein z=2 6, when m=4), a carbocyclic atom group C_6H_{6-m} , C_6H_{12-m} , or a heterocyclic atom group C_3N_3 (when m=3), C_4N_2 (when m=4).
- 4. (Amended) [Compound] <u>A compound</u> according to [any one of claims 1 to 3] <u>claim 1</u>, wherein there are at least 3 K.
- 5. (Amended) [Compound] A compound according to [any one of claims 1 to 4] claim 1, wherein at least two R are not hydrogen.
- 6. (Amended) [Compound] A compound according to [any one of claims 1 to 4] claim 1, wherein at least three R are not hydrogen.
- 7. (Amended) [Compound] A compound according to [any one of claims 1 to 6] claim 1, wherein the ligand R is a mono- or oligo-saccharide, a peptide, a mono- or oligo-nucleotide or a nucleic base and their derivatives and mimetics.
- 8. (Amended) [Compound] <u>A compound</u> according to claim 7, wherein the saccharide R is sialic acid, sialyl lactose, sialyl lactosamine, lactose, mannose, Galα1-3Gal,

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Galα1-3(Fucα1-2)Gal, GalNAcα1-3(Fucα1-2)Gal, Neu5Acα2-6GalNAc, SiaLe^A, SiaLe^X, HSO₃Le^A, HSO₃Le^X, Galα1-3Galβ1-4GlcNAc, Galα1-3Galβ1-4Glc, HSO₃GlcAβ1-3Galβ1-4GlcNAc, N-acetyl-lactosamine or polylactosamine, or wherein the saccharide is sialic acid benzyl glycoside, HSO₃GlcAβ1-3Gal, HSO₃GlcAβ1-3Galβ1-4GlcNAcβ1-3Galβ1-4Glc, GalNAcα, GalNAcα1-3(Fucα1-2)Galβ1-4GlcNAc, Galα1-3(Fucα1-2)Galβ1-4GlcNAc, HSO₃(Sia)Le^X, HSO₃(Sia)Le^A, Le^Y, GlcNAcβ1-6(GlcNAcβ1-3)Galβ1-4Glc, GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glc, mannose-6-phosphate, GalNAcβ1-4GlcNAc, oligo-sialic acid, N-glycolylneuraminic acid, Galα1-4Galβ1-4Glc, Galα1-4Galβ1-4GlcNAc.

9. (Amended) [Compound] <u>A compound</u> according to [any one of claims 1 to 8] <u>claim 1</u>, wherein

m is an integer from 2 to 4,

X is CH_{4-m},

 A^1 is CH_2 ,

A² is NHCO,

 A^3 is CH_2 ,

k is 8,

sp is (CH₂)₃CONHCH₂CONHC₆H₄-4-CH₂O- and

R is Neu5Acα2-6Galβ1-4GlcNAc.

10. (Amended) [Aggregate] An aggregate of the general formula (II):

$$\{X(B)_m\}_n$$

(II)

wherein

 $X(B)_m$

may be identical or different and denote a compound of the general formula (I), [as defined in any one of claims 1 to 11]

$$X(B)_m$$
 (I)

wherein

- X is an m-valent unit and
- B are identical or different and denote K-R,

wherein

K is a bond or is $A^1-(A^2-A^3)_k$ -sp, wherein

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A ¹	is (CH ₂) _t Y(CH ₂) _u , wherein
Y	is $>$ C=O, $>$ NH, -O-, -S- or a bond,
t	is an integer from 0 to 6 and
u	is an integer from 0 to 6,
A ²	is -NHCO-, -CONH-, -OCONH- or SCONH-, or is -CO-,
A^3	is (CH ₂) _r , O(CH ₂) _r , NH(CH ₂) _r , S(CH ₂) _r or -(CHQ)-, wherein
	r is an integer from 1 to 6 and
	Q is a substituted or unsubstituted alkyl or aryl group,
sp	is a divalent spacer or a bond, and
k	is an integer from 5 to 100, and

is hydrogen; a ligand suitable for specific bonding to a receptor;

a marker molecule; or a catalytically active group; and

m is at least 2,

- with the proviso that
- (1) in the compound at least one R is not hydrogen,
- (2) there are at least two K that are not a bond, and
- (3) X, B and m are so selected that an intermolecular association of the K in liquid phase by the formation of hydrogen bonds is possible, with formation of aggregates that present on the surface a plurality of R that are not hydrogen, and
- (4) the molar mass of the fragment $X(K)_m$ is less than 20,000, and n is from 2 to 100,000, and wherein $X(B)_m$ are non-covalently bonded.

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- 11. (Amended) [Aggregate] <u>An aggregate</u> according to claim 10 having a leaf-like, linear, cyclic, polycyclic, polyhedral, spherical or dendritic structure.
- 12. (Amended) [Aggregate] An aggregate according to claim 10 [or 11] of two or more different compounds [according to any one of claims 1 to 9] comprising a compound of the general formula (I)

Y	$(\mathbf{B})_{m}$	4	T)	١
Δ	U/m		L	,

wherein

X is an m-valent unit and

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B are identical or different and denote K-R,

wherein

K is a bond or is $A^1-(A^2-A^3)_k$ -sp, wherein

 A^1 is $(CH_2)_t Y (CH_2)_u$, wherein

Y is >C=O, >NH, -O-, -S- or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

A² is -NHCO-, -CONH-, -OCONH- or SCONH-, or is -CO-,

 A^3 is $(CH_2)_r$, $O(CH_2)_r$, $NH(CH_2)_r$, $S(CH_2)_r$ or $-(CHQ)_r$, wherein

r is an integer from 1 to 6 and

Q is a substituted or unsubstituted alkyl or aryl group,

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

is hydrogen; a ligand suitable for specific bonding to a receptor; a marker molecule; or a catalytically active group; and

m is at least 2,

with the proviso that

- (1) in the compound at least one R is not hydrogen,
- (2) there are at least two K that are not a bond, and
- (3) X, B and m are so selected that an intermolecular association of the K in liquid phase by the formation of hydrogen bonds is possible, with formation of aggregates that present on the surface a plurality of R that are not hydrogen, and
- (4) the molar mass of the fragment $X(K)_m$ is less than 20,000.

Claim 13 has been canceled.

14. (Amended) [Process] A method according to claim [13] 27, <u>further</u> comprising [in the case of a solution of the compound addition of] <u>adding</u> a concentrated salt solution, [a change in] <u>changing</u> the pH or the temperature, or [addition of] <u>adding</u> organic solvents.

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15. (Amended) [Process] <u>A method</u> for changing the structure of [the] <u>an</u> aggregate [as defined in any one of claims 10 to 12, which comprises addition of] <u>of the general formula (II)</u>

(37(D))	,	TT\
$\{X(B)_m\}$	n (II)

wherein

X(B)_m may be identical or different and denote a compound of the general formula (I),

 $X(B)_{m}$ (I)

wherein

- X is an m-valent unit and
- B are identical or different and denote K-R,

wherein

K is a bond or is $A^1-(A^2-A^3)_k$ -sp, wherein

 A^{1} is $(CH_{2})_{t}Y(CH_{2})_{u}$, wherein

Y is >C=O, >NH, -O-, -S- or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

A² is -NHCO-, -CONH-, -OCONH- or SCONH-, or is -CO-,

 $\underline{A^3}$ is $(CH_2)_r$, $O(CH_2)_r$, $NH(CH_2)_r$, $S(CH_2)_r$ or -(CHQ)-, wherein

r is an integer from 1 to 6 and

O is a substituted or unsubstituted alkyl or aryl group,

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

R is hydrogen; a ligand suitable for specific bonding to a receptor; a marker molecule; or a catalytically active group; and

m is at least 2,

with the proviso that

- (1) in the compound at least one R is not hydrogen,
- (2) there are at least two K that are not a bond, and
- (3) X, B and m are so selected that an intermolecular association of the K in liquid phase
 by the formation of hydrogen bonds is possible, with formation of aggregates that
 present on the surface a plurality of R that are not hydrogen, and
- (4) the molar mass of the fragment X(K)_m is less than 20,000, and

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n	is	from	2	to	100	,00	0

and wherein X(B)_m are non-covalently bonded,

<u>further comprising adding</u> a concentrated salt solution, [a change in] <u>changing</u> the temperature or the pH [or an addition of] <u>and/or adding</u> urea, trifluoroethanol or peptides.

16. (Amended) [Process for] A method according to claim 27 further comprising increasing the specific physiological activities of molecules by [their incorporation as] incorporating a radical R into a compound of the general formula (I) [as defined in any one of claims 1 to 9].

Claim 17 has been canceled.

18. (Amended) [Preparation according to claim 17 against] A method of treating diseases arising from inflammation, viral and bacterial infections, influenza viruses, selectin-mediated inflammatory processes, tumour metastases, or in the neutralisation of antibodies in autoimmune disorders and transplants; said method comprising administering a compound of the general formula (I)

 $X(B)_{m}$ (I)

wherein

- X is an m-valent unit and
- B are identical or different and denote K-R,

wherein

K is a bond or is $A^1-(A^2-A^3)_k$ -sp, wherein

 A^1 is $(CH_2)_t Y (CH_2)_u$, wherein

Y is >C=O, >NH, -O-, -S- or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

A² is -NHCO-, -CONH-, -OCONH- or SCONH-, or is -CO-,

 A^3 is $(CH_2)_r$, $O(CH_2)_r$, $NH(CH_2)_r$, $S(CH_2)_r$ or -(CHQ)-, wherein

r is an integer from 1 to 6 and

Q is a substituted or unsubstituted alkyl or aryl group,

sp is a divalent spacer or a bond, and

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k is an integer from 5 to 100, and
R is hydrogen; a ligand suitable for specific bonding to a receptor;
a marker molecule; or a catalytically active group; and
m is at least 2,
with the proviso that
(1) in the compound at least one R is not hydrogen,
(2) there are at least two K that are not a bond, and
(3) X, B and m are so selected that an intermolecular association of the K in liquid phase
by the formation of hydrogen bonds is possible, with formation of aggregates that
present on the surface a plurality of R that are not hydrogen, and
(5) the molar mass of the fragment $X(K)_m$ is less than 20,000; or
administering into an aggregate of the general formula (II)
$\{X(B)_{\underline{m}}\}_{\underline{n}} \qquad (II)$
wherein_
X(B) _m may be identical or different and denote a compound of the general
formula (I), and
n is from 2 to 100,000,
and wherein X(B) _m are non-covalently bonded.
Claim 19 has been canceled.

20. (Amended) [Use of a compound as defined in any one of claims 1 to 9 or of an aggregate as defined in any one of claims 10 to 12 in the preparation of functionalised] A method according to claim 18 further comprising preparing functionalized molecular surfaces.

Claims 21 and 22 have been canceled.

23. (Amended) [Compound] A compound of the general formula (III),

 $X(B)_m$ (III) In re: Nikolai Vladimir Ch Bovin et al.

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wherein

- X is an m-valent unit and
- B are identical or different and denote K-H,

wherein

K is $A^1-(A^2-A^3)_k$ -sp, wherein

 A^1 is $(CH_2)_t Y (CH_2)_u$, wherein

Y is >C=O, >NH, -O-, -S- or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

A² is -NHCO-, -CONH-, -OCONH- or SCONH-, or is -CO-,

A³ is (CH₂)_r, O(CH₂)_r, NH(CH₂)_r, S(CH₂)_r or -(CHQ)-, wherein

r is an integer from 1 to 6 and

Q is a substituted or unsubstituted alkyl or aryl group,

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

m is at least 2,

with the proviso that

- (1) X, B and m are so selected that an intermolecular association of the K in liquid phase is possible, especially under aqueous conditions, by the formation of hydrogen bonds, with formation of aggregates, and
- (2) the molar mass of the fragment $X(K)_m$ is less than 20,000, especially less than 4000.

Claim 24 has been canceled.

25. (New) A method of preparing a therapeutic drug comprising: preparing a compound of the general formula (III),

$$X(B)_{m}$$
 (III)

wherein

X is an m-valent unit and

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B are identical or different and denote K-H, wherein

K is
$$A^1-(A^2-A^3)_k$$
-sp, wherein

$$A^{1}$$
 is $(CH_{2})_{t}Y(CH_{2})_{u}$, wherein

Y is
$$>C=O$$
, $>NH$, $-O$ -, $-S$ - or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

A² is -NHCO-, -CONH-, -OCONH- or SCONH-, or is -CO-,

 A^3 is $(CH_2)_r$, $O(CH_2)_r$, $NH(CH_2)_r$, $S(CH_2)_r$ or -(CHQ)-, wherein

r is an integer from 1 to 6 and

Q is a substituted or unsubstituted alkyl or aryl group,

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

m is at least 2,

with the proviso that

- (1) X, B and m are so selected that an intermolecular association of the K in liquid phase is possible, especially under aqueous conditions, by the formation of hydrogen bonds, with formation of aggregates, and
- (2) the molar mass of the fragment $X(K)_m$ is less than 20,000, especially less than 4000.
- 26. (New) A method of treating diseases arising from inflammation, viral and bacterial infections, influenza viruses, selectin-mediated inflammatory processes, tumour metastases, or in the neutralisation of antibodies in autoimmune disorders and transplants; said method comprising administering a compound of the general formula (III),

$$X(B)_{m}$$
 (III)

wherein

- X is an m-valent unit and
- B are identical or different and denote K-H, wherein

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K is $A^1-(A^2-A^3)_k$ -sp, wherein

 A^1 is $(CH_2)_t Y (CH_2)_u$, wherein

Y is >C=O, >NH, -O-, -S- or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

A² is -NHCO-, -CONH-, -OCONH- or SCONH-, or is -CO-,

 A^3 is $(CH_2)_r$, $O(CH_2)_r$, $NH(CH_2)_r$, $S(CH_2)_r$ or $-(CHQ)_-$, wherein

r is an integer from 1 to 6 and

Q is a substituted or unsubstituted alkyl or aryl group,

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

m is at least 2,

with the proviso that

- (1) X, B and m are so selected that an intermolecular association of the K in liquid phase is possible, especially under aqueous conditions, by the formation of hydrogen bonds, with formation of aggregates, and
- (2) the molar mass of the fragment $X(K)_m$ is less than 20,000, especially less than 4000.
- 27. (New) A method of preparing an aggregate comprising:

preparing a compound of the general formula (II)

$${X(B)_m}_n$$

(II)

wherein

X(B)_m may be identical or different and denote a compound of the general formula (I),

$$X(B)_m$$

(I)

wherein

X is an m-valent unit and

B are identical or different and denote K-R,

wherein

K is a bond or is $A^1-(A^2-A^3)_k$ -sp, wherein

A¹ is (CH₂)_tY(CH₂)_u, wherein

Y is >C=O, >NH, -O-, -S- or a bond,

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t is an integer from 0 to 6 and

u is an integer from 0 to 6,

A² is -NHCO-, -CONH-, -OCONH- or SCONH-, or is -CO-,

A³ is (CH₂)_r, O(CH₂)_r, NH(CH₂)_r, S(CH₂)_r or -(CHQ)-, wherein

r is an integer from 1 to 6 and

Q is a substituted or unsubstituted alkyl or aryl group,

(I)

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

R is hydrogen; a ligand suitable for specific bonding to a receptor; a marker molecule; or a catalytically active group; and

m is at least 2,

with the proviso that

- (1) in the compound at least one R is not hydrogen,
- (2) there are at least two K that are not a bond, and
- (3) X, B and m are so selected that an intermolecular association of the K in liquid phase by the formation of hydrogen bonds is possible, with formation of aggregates that present on the surface a plurality of R that are not hydrogen, and
- (4) the molar mass of the fragment $X(K)_m$ is less than 20,000, and is from 2 to 100,000,

and wherein X(B)_m are non-covalently bonded.

28. (New) A method of preparing a therapeutic drug comprising: preparing the compound of the general formula (I)

$$X(B)_{m}$$

wherein

X is an m-valent unit and

B are identical or different and denote K-R, wherein

K is a bond or is $A^1-(A^2-A^3)_k$ -sp, wherein

 A^1 is $(CH_2)_t Y (CH_2)_u$, wherein

Y is >C=O, >NH, -O-, -S- or a bond,

t is an integer from 0 to 6 and

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u is an integer from 0 to 6,

A² is -NHCO-, -CONH-, -OCONH- or SCONH-, or is -CO-,

 A^3 is $(CH_2)_r$, $O(CH_2)_r$, $NH(CH_2)_r$, $S(CH_2)_r$ or -(CHQ)-, wherein

r is an integer from 1 to 6 and

Q is a substituted or unsubstituted alkyl or aryl group,

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

R is hydrogen; a ligand suitable for specific bonding to a receptor; a marker molecule; or a catalytically active group; and

m is at least 2, with the proviso that

- (1) in the compound at least one R is not hydrogen,
- (2) there are at least two K that are not a bond, and
- (3) X, B and m are so selected that an intermolecular association of the K in liquid phase by the formation of hydrogen bonds is possible, with formation of aggregates that present on the surface a plurality of R that are not hydrogen, and
- (4) the molar mass of the fragment $X(K)_m$ is less than 20,000; or preparing the compound of the general formula (II):

$$\{X(B)_m\}_n \tag{II}$$

wherein

X(B)_m may be identical or different and denote a compound of the general

formula (I), and

n is from 2 to 100,000,

and wherein X(B)_m are non-covalently bonded; and a pharmaceutically acceptable carrier.

29. (New) A method of preparing a diagnostic test comprising:

providing a test reagent

preparing a compound of the general formula (I)

$$X(B)_{m}$$
 (I)

wherein

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X is an m-valent unit and

B are identical or different and denote K-R, wherein

K is a bond or is $A^1-(A^2-A^3)_k$ -sp, wherein

 A^1 is $(CH_2)_t Y (CH_2)_u$, wherein

Y is >C=O, >NH, -O-, -S- or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

A² is -NHCO-, -CONH-, -OCONH- or SCONH-, or is -CO-,

 A^3 is $(CH_2)_r$, $O(CH_2)_r$, $NH(CH_2)_r$, $S(CH_2)_r$ or $-(CHQ)_r$, wherein

r is an integer from 1 to 6 and

Q is a substituted or unsubstituted alkyl or aryl group,

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

R is hydrogen; a ligand suitable for specific bonding to a receptor; a marker molecule; or a catalytically active group; and

m is at least 2, with the proviso that

- (1) in the compound at least one R is not hydrogen,
- (2) there are at least two K that are not a bond, and
- (3) X, B and m are so selected that an intermolecular association of the K in liquid phase by the formation of hydrogen bonds is possible, with formation of aggregates that present on the surface a plurality of R that are not hydrogen, and
- (5) the molar mass of the fragment $X(K)_m$ is less than 20,000; or preparing an aggregate of the general formula (II)

$$\{X(B)_m\}_n \tag{II}$$

wherein

X(B)_m may be identical or different and denote a compound of the general formula (I), and

n is from 2 to 100,000,

and wherein $X(B)_m$ are non-covalently bonded; and comparing the test reagent to the compounds of the general formula (I) or (II).